

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-071181

(43)Date of publication of application : 15.03.1994

(51)Int.Cl.

B01J 29/30
B01D 53/36
B01J 29/32
F01N 3/10
F01N 3/24

(21)Application number : 04-230700

(71)Applicant : MITSUBISHI HEAVY IND LTD

(22)Date of filing : 31.08.1992

(72)Inventor : NOJIMA SHIGERU
IIDA KOZO

(54) METHOD FOR TREATING EXHAUST GAS

(57)Abstract:

PURPOSE: To remove in an excellent way exhaust gas and particularly NO_x contained therein in an atmosphere of high O₂ concn. emitted from internal combustion engine over a wide temp. range by a method wherein a catalyst having a high denitration activity over a high temp. range is provided on the exhaust gas inlet side and a catalyst having a high denitration activity over a low temp. range is provided on the exhaust gas outlet side.

CONSTITUTION: A catalyst having a high denitration activity over a high temp. range is the one having copper, Co, iron and silver supported as active metal on the crystalline silicate having an oxide molar ratio of 1 ± 0.6 in a dehydrated condition and represented by the chemical formula $R_2O[aM_2O_3.bAl_2O_3].ySiO_2$ (wherein R is alkali metal ion and hydrogen ion, M is an VIII group metal, rare metal, Ti, etc., $a+b=1$, $a \geq 0$, $b \geq 0$ and $y > 12$). A catalyst having a high denitration activity over a low temp. range employs Pt, Ph, etc., as active metal and Al₂O₃, SiO₂, crystalline silicate, etc., as a carrier. The catalyst having a high denitration activity over a high temp. range provided on the exhaust gas inlet side and the catalyst having a high denitration activity over a low temp. range provided on the exhaust gas outlet side are arranged in a row.

LEGAL STATUS

[Date of request for examination] 15.07.1997

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3219480

[Date of registration] 10.08.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]